

### Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

### Types of number

**Integer:** a 'whole' number  
Factors: the divisors of an integer  
• Factors of 12 are 1, 2, 3, 4, 6, 12  
Multiples: a 'times table' for an integer (with infinite multiples)  
• Multiples of 12 are 12, 24, 36, ...  
Prime numbers: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

### Units

**Highest Common Factor (HCF)**  
• Factors of 6 are 1, 2, 3, 6  
Factors of 9 are 1, 3, 9  
HCF of 6 and 9 is 3

### Lowest Common Multiple (LCM)

• Multiples of 6 are 6, 12, 18, 24, ...  
Multiples of 9 are 9, 18, 27, 36, ...  
LCM of 6 and 9 is 18

### Power notation

Write a number as a product of its prime factors, and follow for repeated factors  
•  $120 = 2^3 \times 3 \times 5$

### Indices and roots

Special indices for any value  $a$   
 $a^0 = 1$

$$a^m \times a^n = a^{m+n}$$

$$a^m \div a^n = a^{m-n}$$

### Ordering and fractions

Adding or subtracting fractions, use a common denominator...

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Multiplying fractions: multiply numerators and denominators...

$$\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$$

Dividing fractions: 'flip' the second fraction, then multiply...

$$\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$$

### Prime factorisation

Factorise a number as a product of its prime factors...

$$12 = 2 \times 2 \times 3 = 2^2 \times 3$$

Use the prime factors to change decimals or fractions. Multiply where possible.

$$0.45 = \frac{45}{100} = \frac{9}{20}$$

Learn the most frequently used ones

1/2	1/3	2/3	1/4	3/4	1/5	2/5	3/5	4/5	1/6	5/6	1/10	9/10	1/12	11/12
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### Algebra

Look for the biggest square number factor of the coefficient.  
•  $100 = 10 \times 10$  or  $2 \times 2 \times 5 \times 5$

### Standard form

Standard form numbers are of the form:  $a \times 10^n$  where  $1 \leq a < 10$  and  $n$  is an integer

### Scientific notation

1 metre = 1000 millimetres  
1 kilometre = 1000 metres  
1 million = 1000 thousand  
1 billion = 1000 million  
1 quadrillion = 100 trillion

1 day = 24 hours  
1 hour = 60 minutes = 3600 seconds  
1 minute = 60 seconds

### Arithmetic

Transfer the number, then add or 'borrow' digits to move up or down. Decimal places: use the decimal point.  
• 102.1001 - 10.100 = 92.0001

### Order of operations

First the range of numbers that will result in a given value  
•  $x = 5$  or  $x = 10$  (if  $x$  is squared)  
•  $x = 5$  or  $x = 10$  (if  $x$  is cubed)  
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### Geometry & measures



### Area and volume

Equation of straight line  $y = mx + c$  as in the graph,  $c$  is the  $y$ -intercept  
• Find the equation of the line that joins (0, 2) to (2, 1.5)  
Find the gradient:  
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1.5 - 2}{2 - 0} = \frac{-0.5}{2} = -0.25$   
...and the  $y$ -intercept.  
From the graph,  $y = mx + c$   
Equation is  $y = -0.25x + 2$

### Area and volume

Parallel lines: gradients are equal  
•  $y = 3x + 2$  and  $y = 3x + 4$  both have gradient 3 so are parallel.

### Area and volume

Area of triangle =  $\frac{1}{2} \times \text{base} \times \text{height}$   
•  $\frac{1}{2} \times 10 \times 4 = 20$   
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# Pixl 2015 Gcse Maths Ppe Paper May 2015

**Kathleen Armour**



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